

Title (en)

Shaft furnace for carbonization of organic solid fuels

Title (de)

Schachtofen zur Verschwelung organischer Feststoffe

Title (fr)

Fourneau à cuve destiné à carboniser des matières solides organiques

Publication

**EP 2413032 A3 20140326 (DE)**

Application

**EP 11006188 A 20110727**

Priority

CH 12302010 A 20100727

Abstract (en)

[origin: EP2413032A2] Shaft furnace (1) made of refractory materials for carbonizing organic raw materials to pyro-coal comprises: a supplying region of the raw materials; a carbonization chamber (4) to the treatment site of the raw materials; firebeds to the carbonization site of the raw materials to the pyro-coal; a withdrawal zone of the pyro-coal; at least one conveying screw to supply the organic solid- and residual materials; at least one rotating disc screen roller to carry the firebeds, and discharge the pyro-coal from the firebeds; and a discharging screw to discharge the pyro-coal in a trough. Shaft furnace (1) made of refractory materials for carbonizing organic raw materials to pyro-coal, comprises (from top to bottom): a supplying region of the raw materials; a carbonization chamber (4) to the treatment site of the raw materials; firebeds to the carbonization site of the raw materials to the pyro-coal; a withdrawal zone of the pyro-coal; at least one conveying screw as a dosing device (6.1) for supplying the organic solid- and residual materials; at least one rotating disc screen roller for carrying the firebeds, and discharging the pyro-coal from the firebeds; and a discharging screw for discharging the pyro-coal in an upwardly open trough, where the discharging screw with the pyro-coal is obstructed or impeded to the path of the external air to penetrate into the carbonization chamber.

IPC 8 full level

**F23G 5/24** (2006.01); **C10B 33/02** (2006.01); **C10B 49/02** (2006.01); **C10B 53/02** (2006.01); **F23G 7/10** (2006.01); **F23H 9/02** (2006.01)

CPC (source: EP)

**F23G 5/24** (2013.01); **F23G 7/10** (2013.01); **F23G 2203/103** (2013.01); **F23G 2209/26** (2013.01)

Citation (search report)

- [A] GB 2466260 A 20100623 - MATTINSON STEPHEN [GB]
- [A] US 3141834 A 19640721 - DEAN ALLRED VICTOR
- [A] DE 493602 C 19300308 - HOCHDRUCKDAMPF ZUSATZKESSEL M
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Cited by

CN114752396A; WO2015036241A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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